

RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

General Description of EUT	
Product Name:	ETOE TV
Test Model:	D1221
Sample ID:	202302-0086_01-02
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202302-0086-52 The report only show the worst case data.	

Contents

1. DTS Bandwidth.....	3
1.1. Test Result.....	3
1.2. Test Graphs	4
2. Occupied Channel Bandwidth.....	12
2.1. Test Result.....	12
2.2. Test Graphs	13
3. Maximum conducted output power.....	21
3.1. Test Result.....	21
4. Maximum power spectral density	22
4.1. Test Result.....	22
4.2. Test Graphs	23
5. Band edge measurements	31
5.1. Test Result.....	31
5.2. Test Graphs	32
6. Conducted Spurious Emission.....	38
6.1. Test Result.....	38
6.2. Test Graphs	40
7. Duty Cycle	64
7.1. Test Result.....	64
7.2. Test Graphs	65

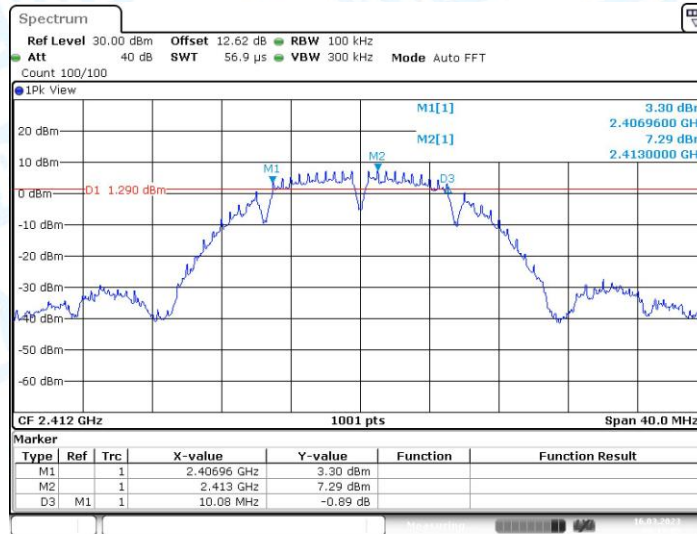
1. DTS Bandwidth

1.1. Test Result

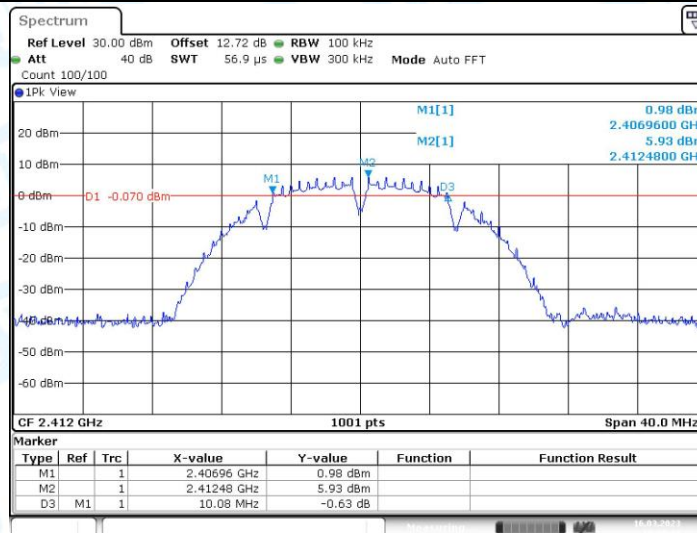
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.08	2406.96	2417.04	0.5	PASS
	Ant2	2412	10.08	2406.96	2417.04	0.5	PASS
	Ant1	2437	10.12	2431.92	2442.04	0.5	PASS
	Ant2	2437	10.12	2431.92	2442.04	0.5	PASS
	Ant1	2462	10.12	2456.92	2467.04	0.5	PASS
	Ant2	2462	10.12	2456.92	2467.04	0.5	PASS
11G	Ant1	2412	16.36	2403.80	2420.16	0.5	PASS
	Ant2	2412	16.36	2403.80	2420.16	0.5	PASS
	Ant1	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant2	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant1	2462	16.32	2453.84	2470.16	0.5	PASS
	Ant2	2462	16.40	2453.80	2470.20	0.5	PASS
11N20MIMO	Ant1	2412	17.56	2403.24	2420.80	0.5	PASS
	Ant2	2412	17.60	2403.20	2420.80	0.5	PASS
	Ant1	2437	17.56	2428.20	2445.76	0.5	PASS
	Ant2	2437	17.32	2428.24	2445.56	0.5	PASS
	Ant1	2462	15.64	2454.52	2470.16	0.5	PASS
	Ant2	2462	15.88	2454.24	2470.12	0.5	PASS
11N40MIMO	Ant1	2422	35.12	2404.48	2439.60	0.5	PASS
	Ant2	2422	35.12	2404.40	2439.52	0.5	PASS
	Ant1	2437	36.32	2418.84	2455.16	0.5	PASS
	Ant2	2437	35.12	2419.40	2454.52	0.5	PASS
	Ant1	2452	36.08	2434.08	2470.16	0.5	PASS
	Ant2	2452	33.84	2435.68	2469.52	0.5	PASS

1.2. Test Graphs

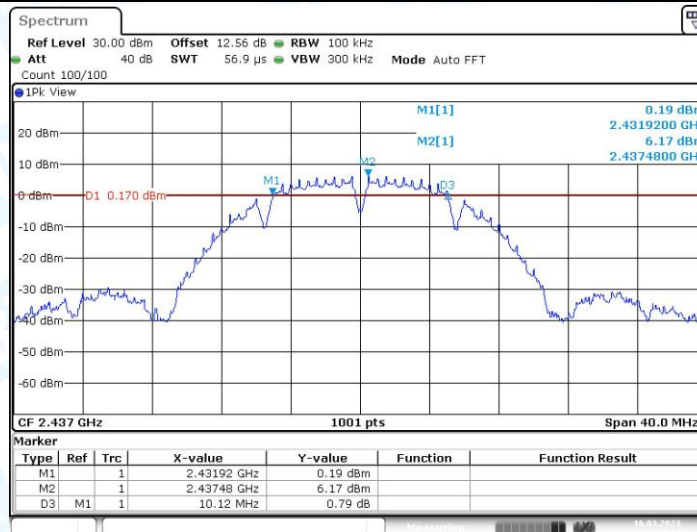
11B_Ant1_2412



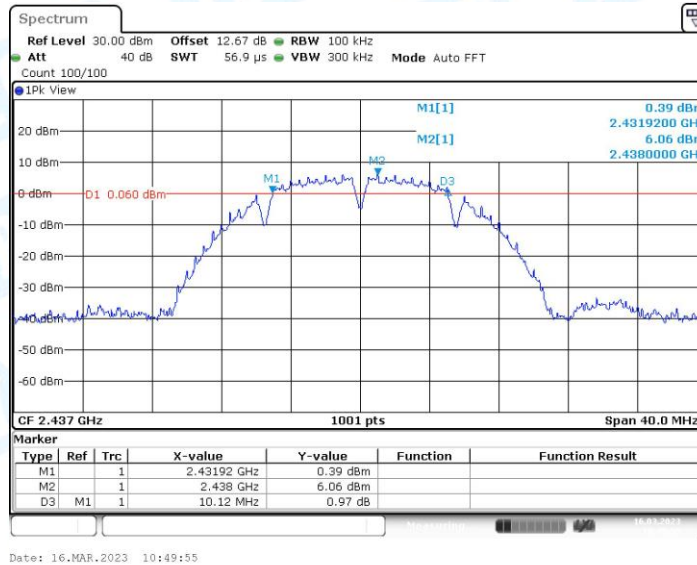
11B_Ant2_2412



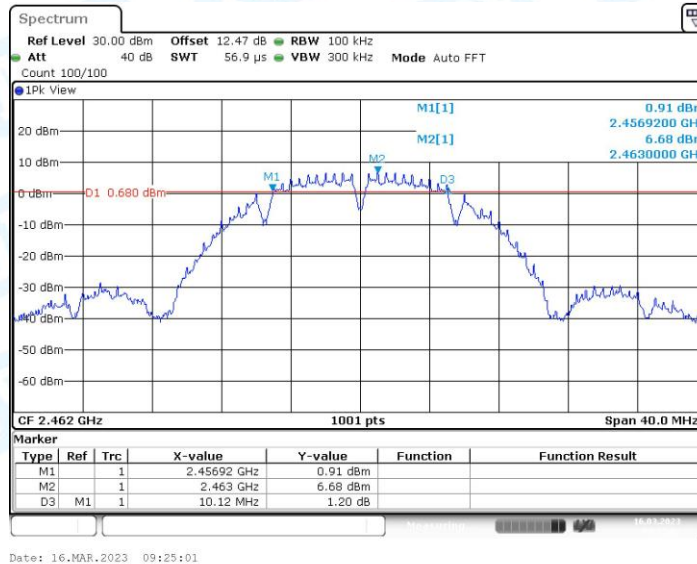
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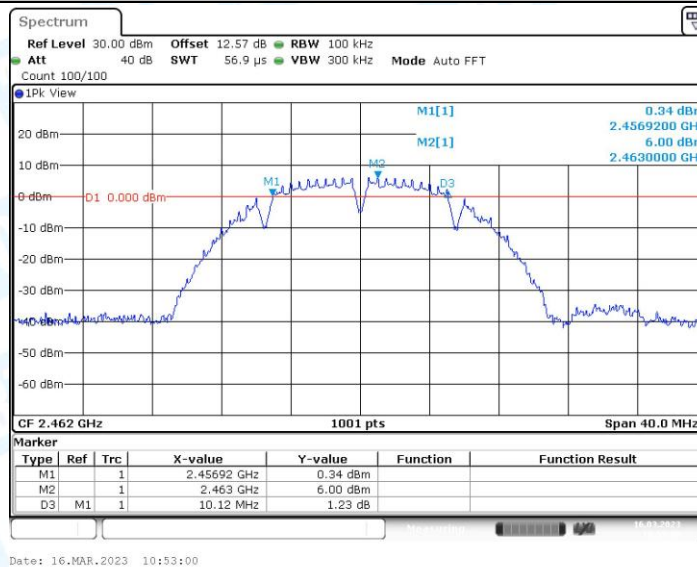
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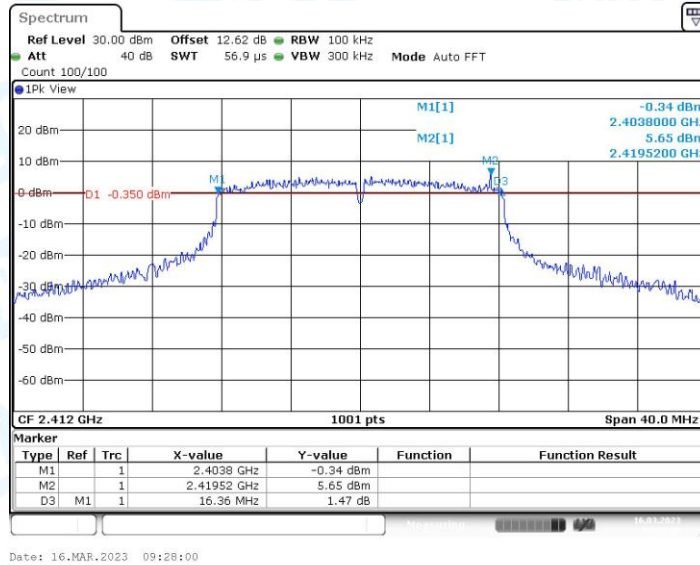
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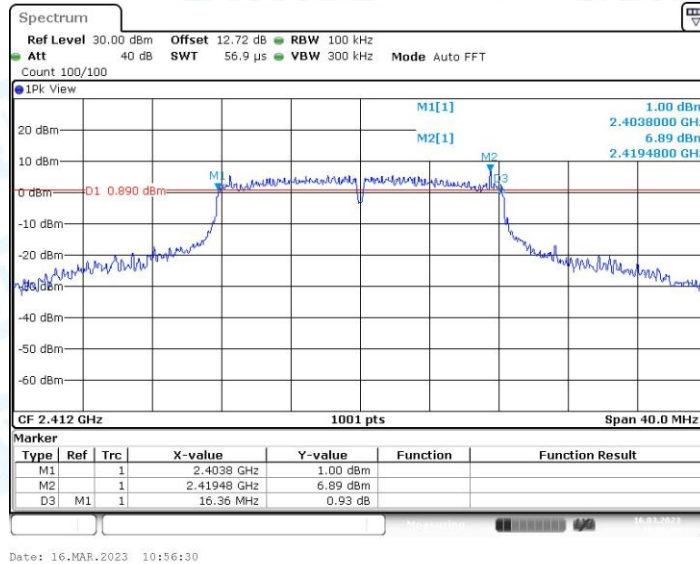
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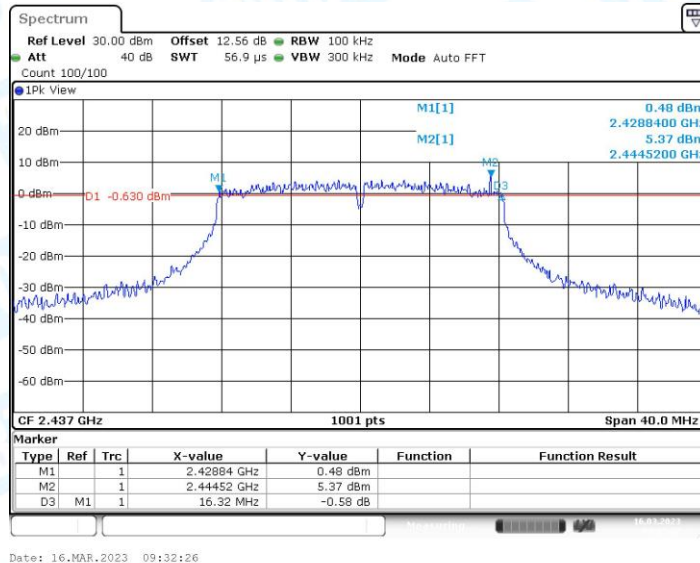
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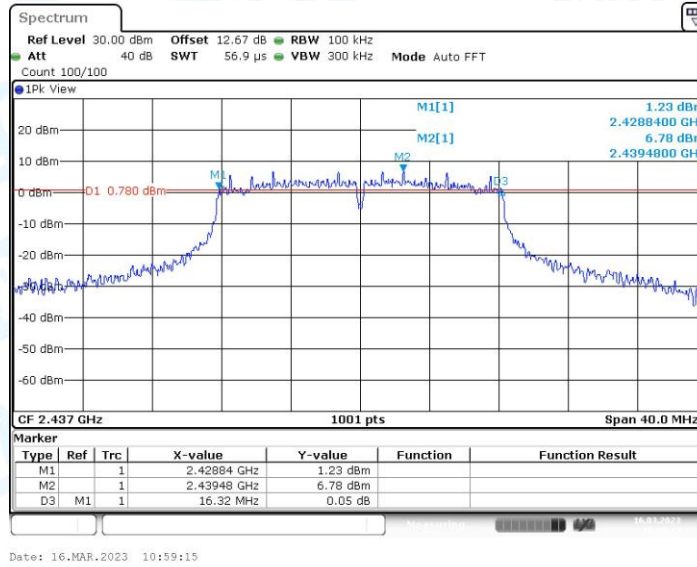
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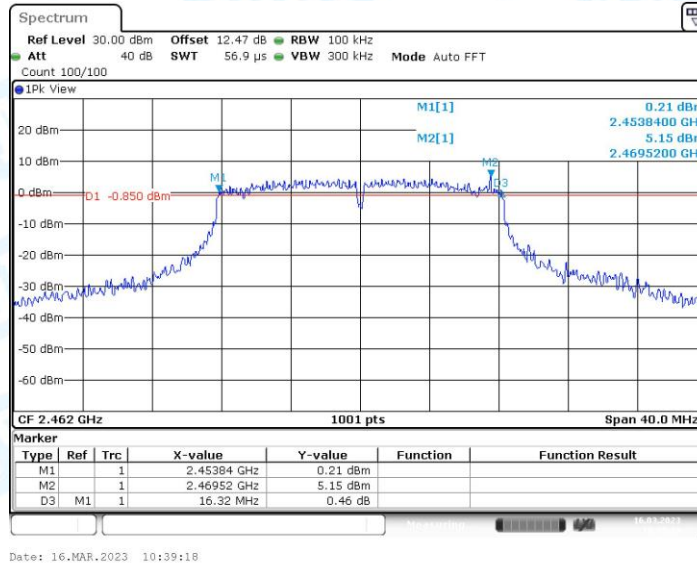
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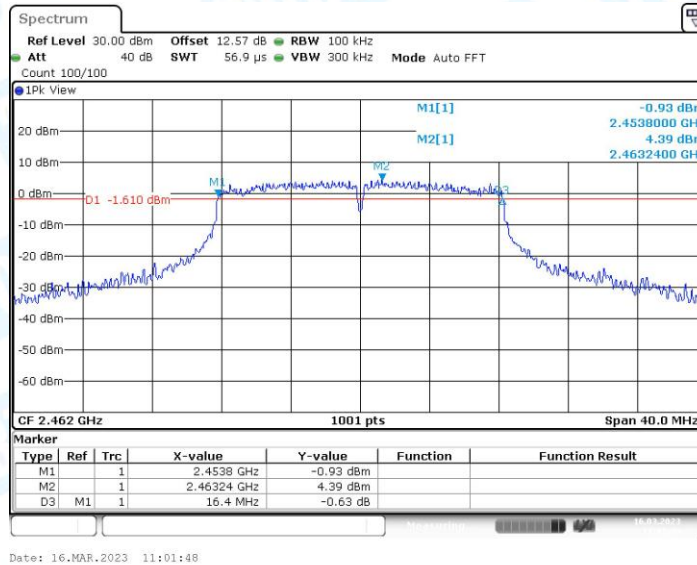
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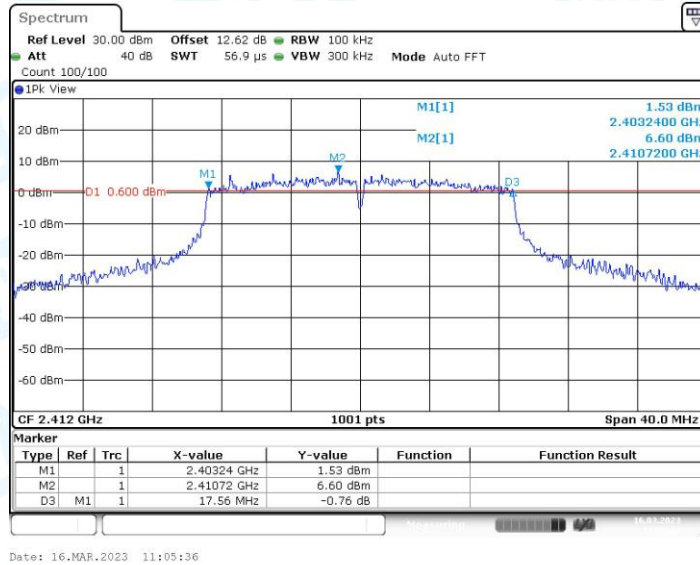
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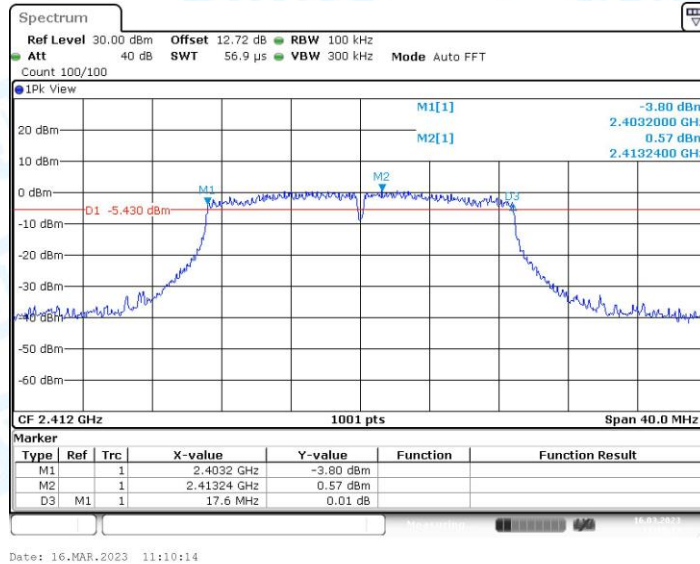
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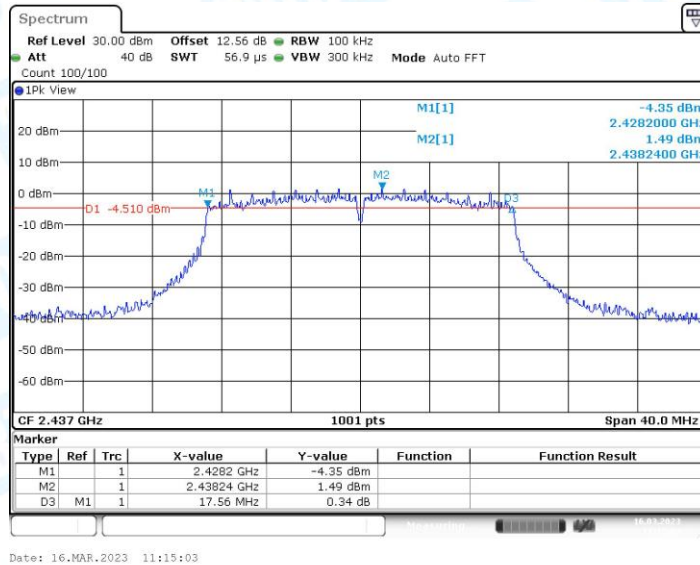
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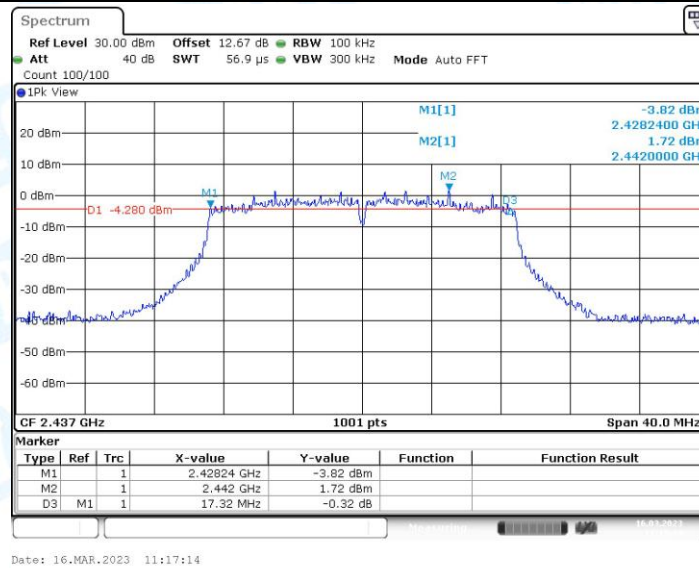
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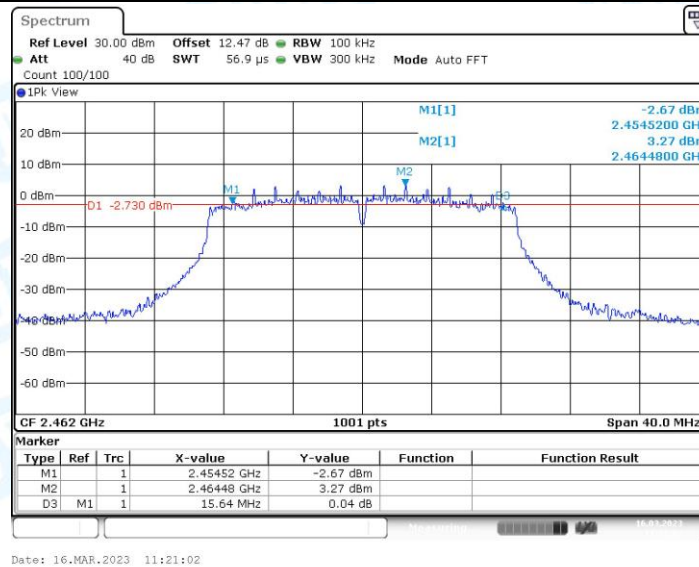
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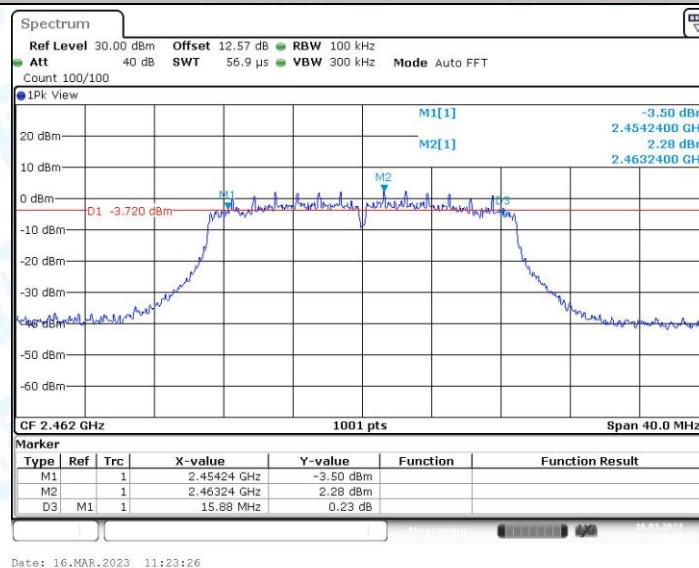
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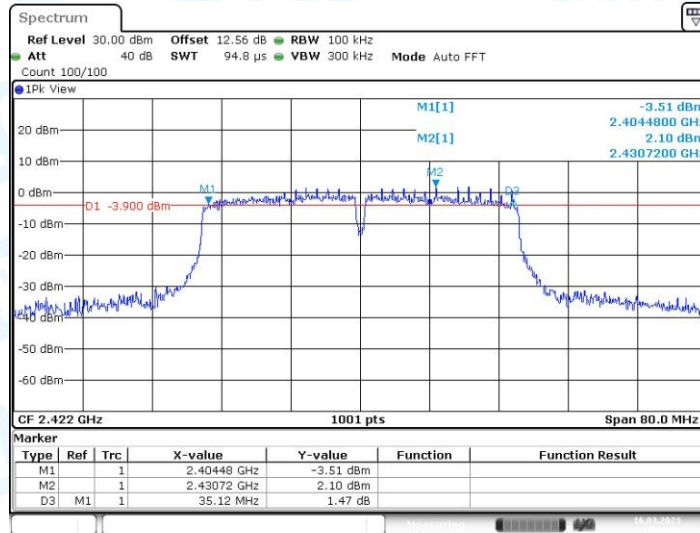
11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462

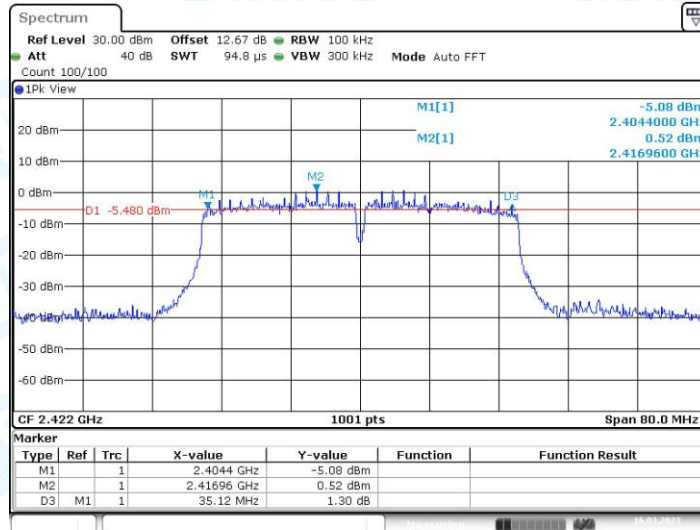


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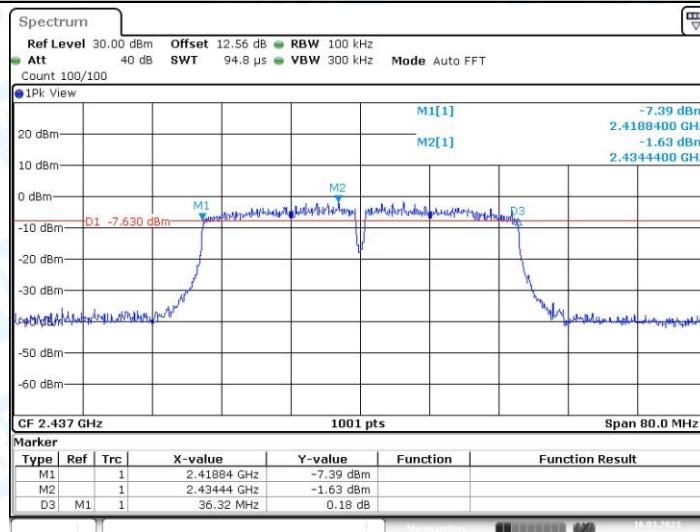
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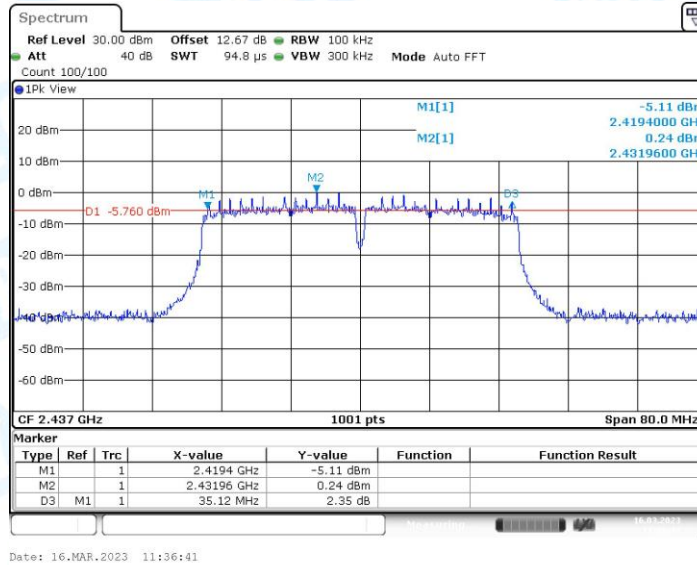
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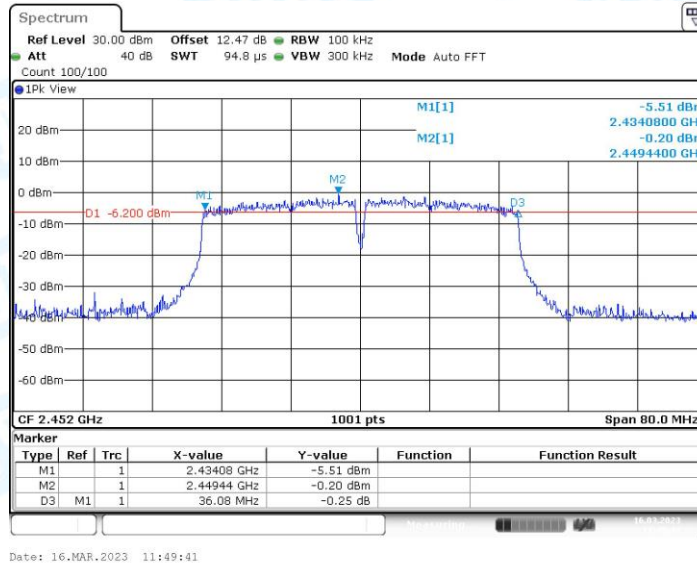


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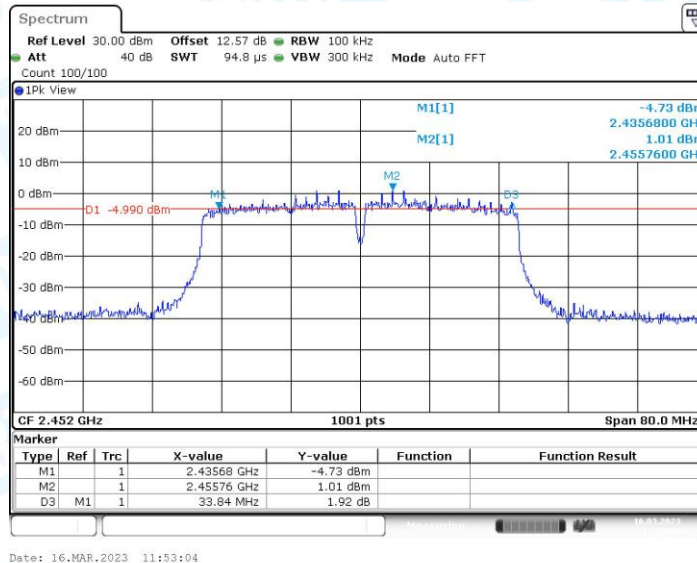
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11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452

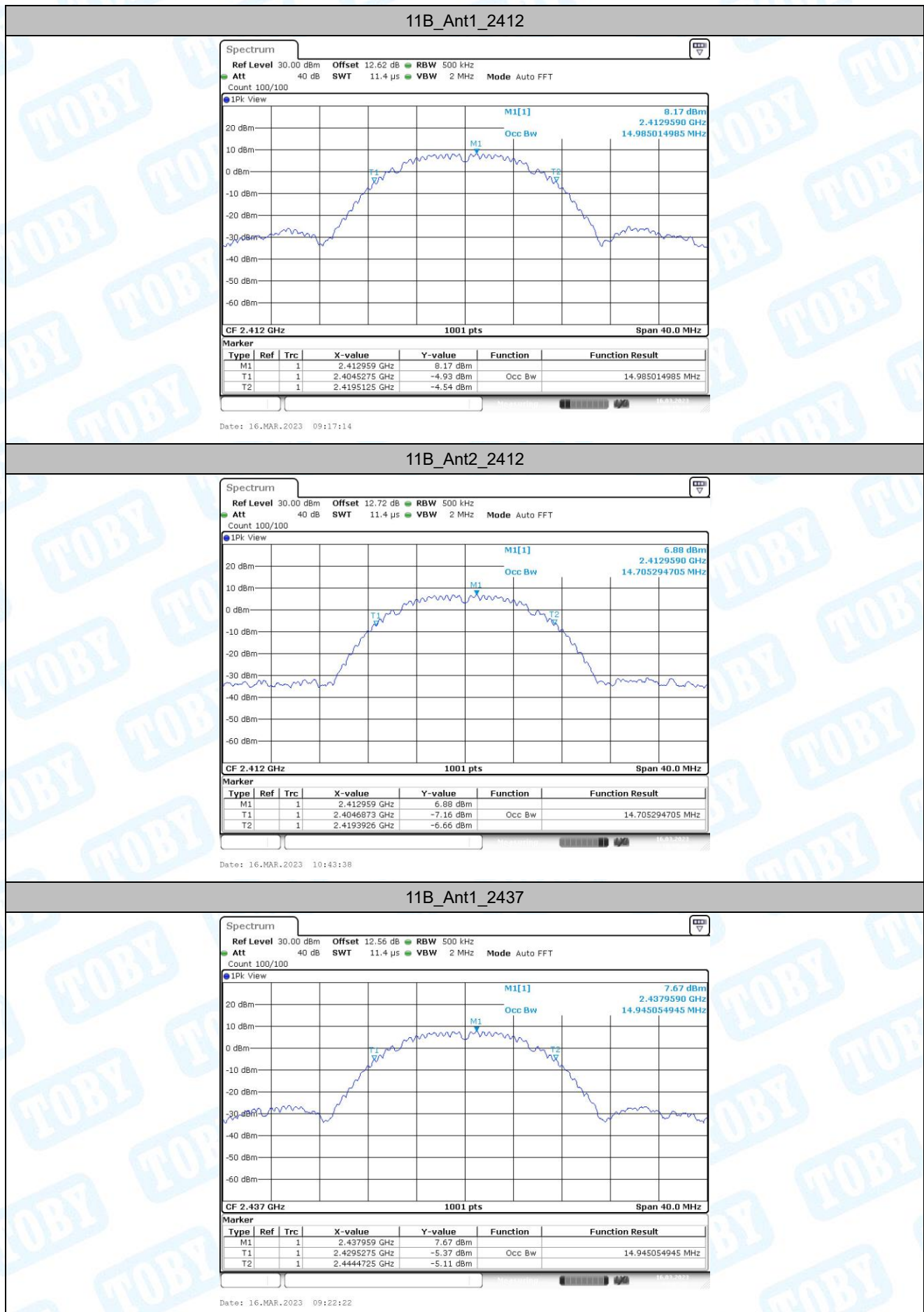


2. Occupied Channel Bandwidth

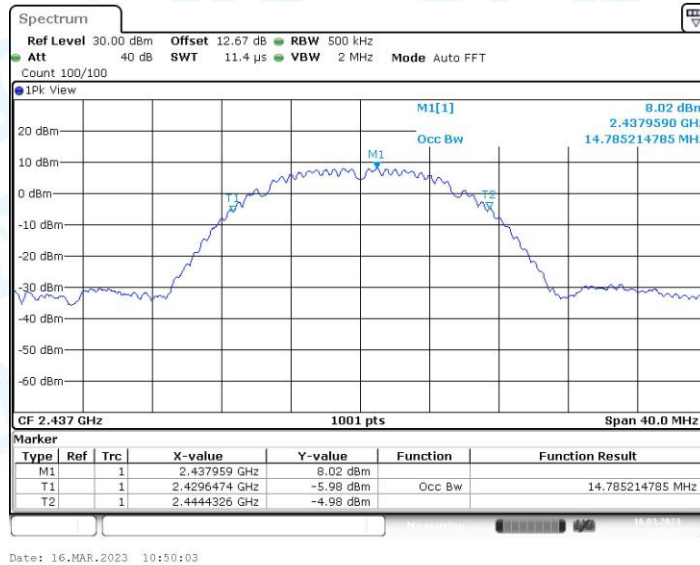
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.985	2404.5275	2419.5125	---	---
	Ant2	2412	14.705	2404.6873	2419.3926	---	---
	Ant1	2437	14.945	2429.5275	2444.4725	---	---
	Ant2	2437	14.785	2429.6474	2444.4326	---	---
	Ant1	2462	14.945	2454.5674	2469.5125	---	---
	Ant2	2462	14.745	2454.6873	2469.4326	---	---
11G	Ant1	2412	17.103	2403.3686	2420.4715	---	---
	Ant2	2412	17.143	2403.5684	2420.7113	---	---
	Ant1	2437	17.063	2428.4486	2445.5115	---	---
	Ant2	2437	17.063	2428.4486	2445.5115	---	---
	Ant1	2462	17.103	2453.5684	2470.6713	---	---
	Ant2	2462	16.903	2453.4885	2470.3916	---	---
11N20MIMO	Ant1	2412	18.222	2402.7293	2420.9510	---	---
	Ant2	2412	18.262	2402.8092	2421.0709	---	---
	Ant1	2437	17.902	2428.1289	2446.0310	---	---
	Ant2	2437	18.142	2427.8492	2445.9910	---	---
	Ant1	2462	17.902	2453.0090	2470.9111	---	---
	Ant2	2462	17.902	2453.0090	2470.9111	---	---
11N40MIMO	Ant1	2422	36.284	2403.8581	2440.1419	---	---
	Ant2	2422	36.204	2403.9381	2440.1419	---	---
	Ant1	2437	36.204	2418.9381	2455.1419	---	---
	Ant2	2437	36.284	2418.8581	2455.1419	---	---
	Ant1	2452	36.204	2433.8581	2470.0619	---	---
	Ant2	2452	36.364	2433.6983	2470.0619	---	---

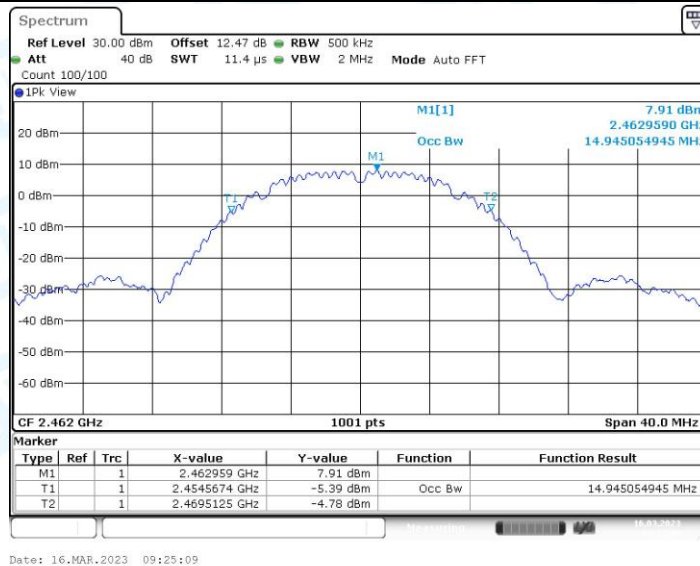
2.2. Test Graphs



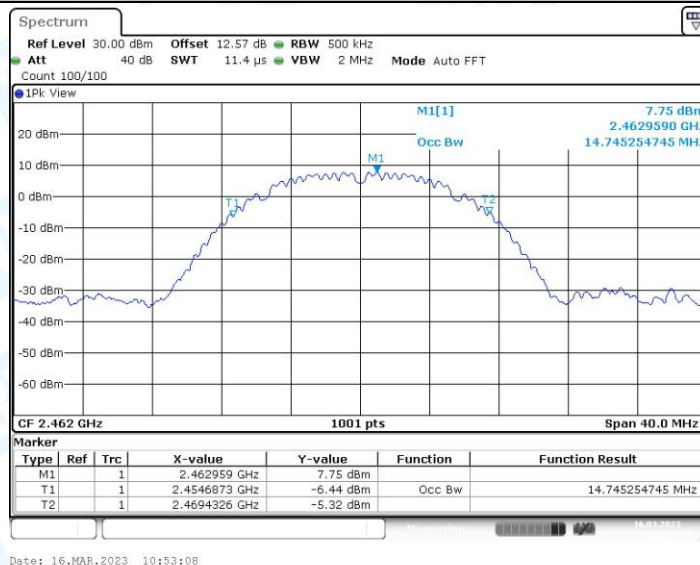
11B_Ant2_2437



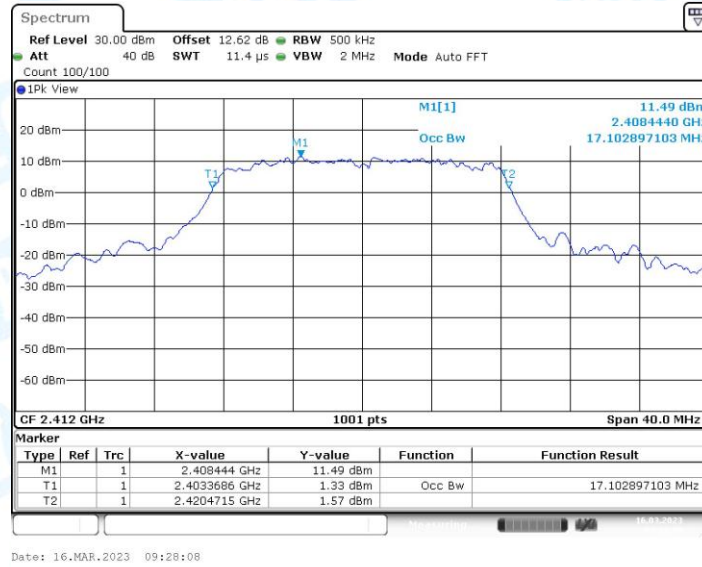
11B_Ant1_2462



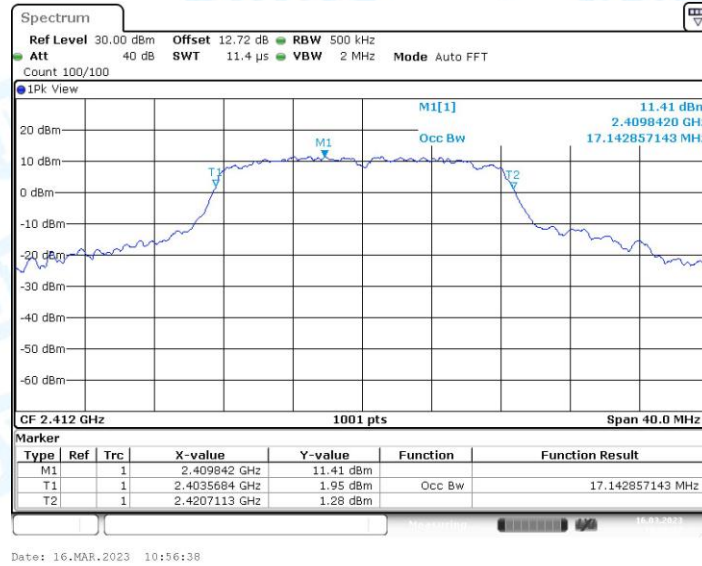
11B_Ant2_2462



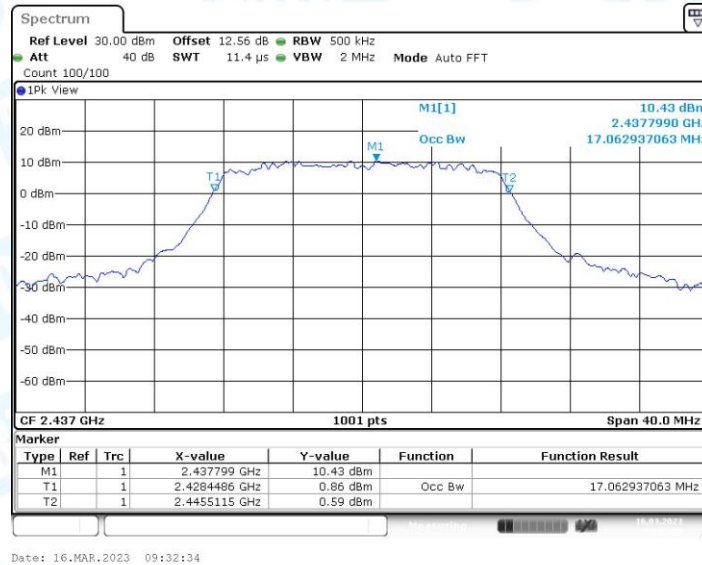
11G_Ant1_2412



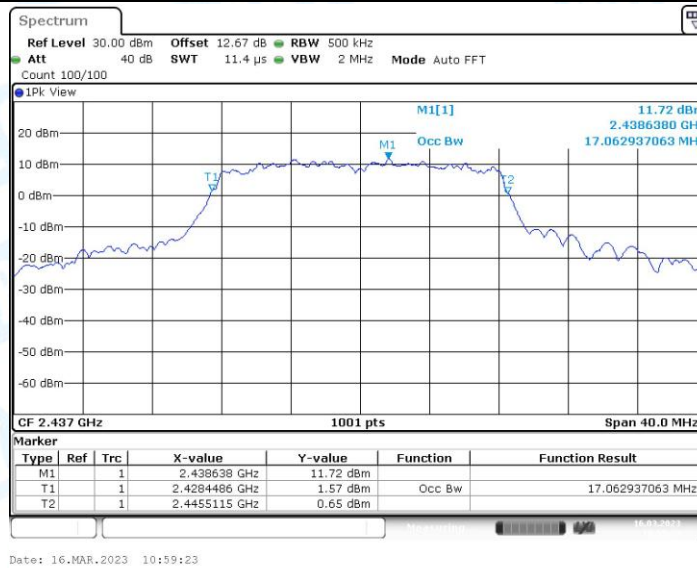
11G_Ant2_2412



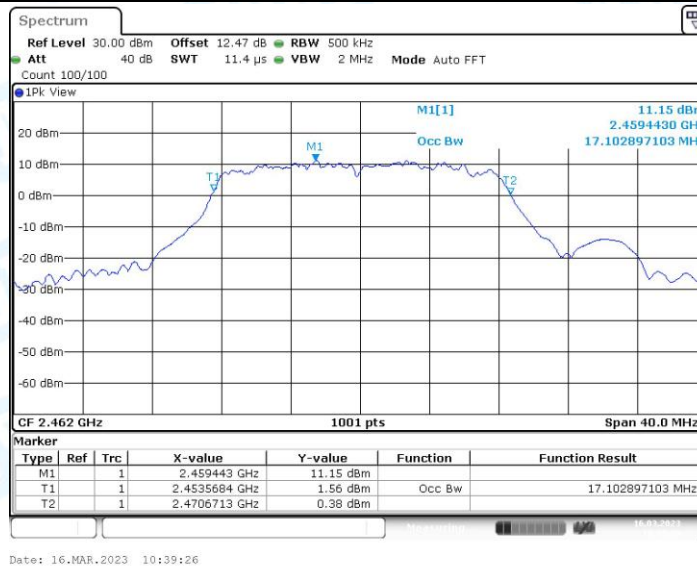
11G_Ant1_2437



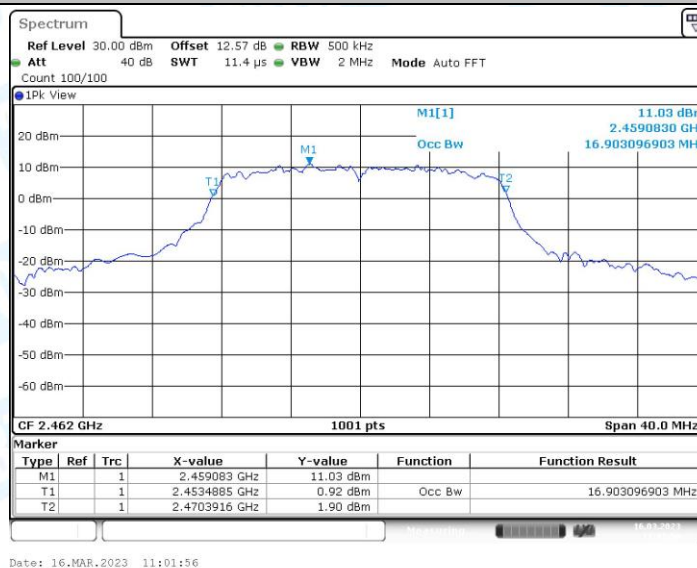
11G_Ant2_2437



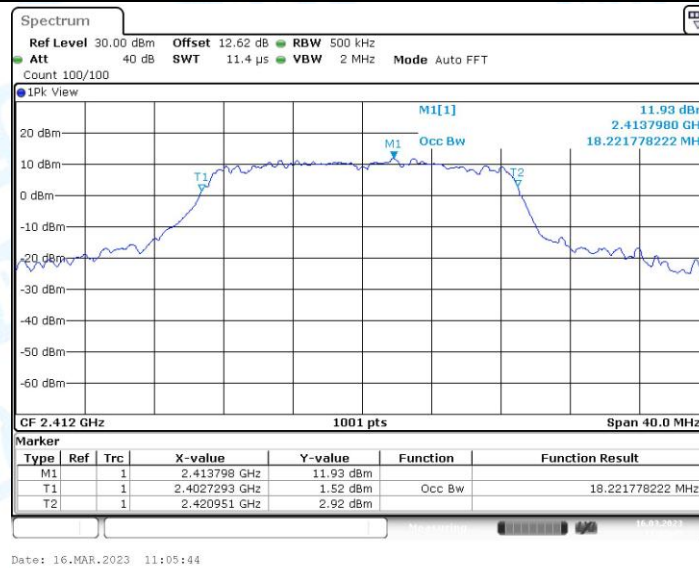
11G_Ant1_2462



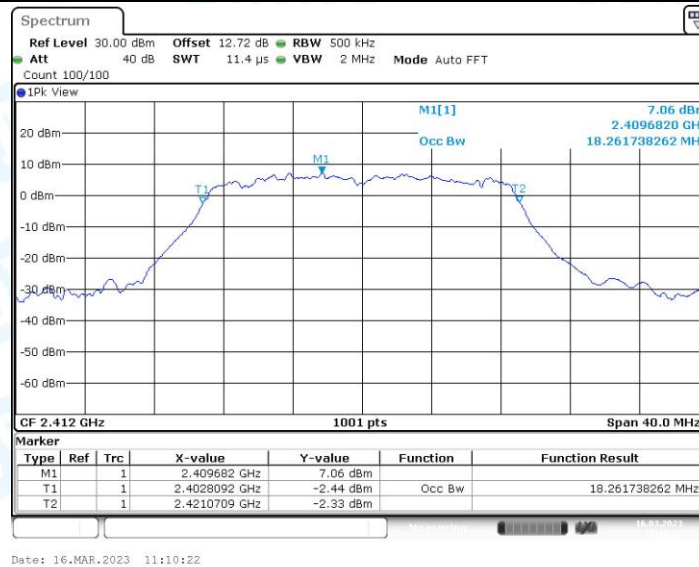
11G_Ant2_2462



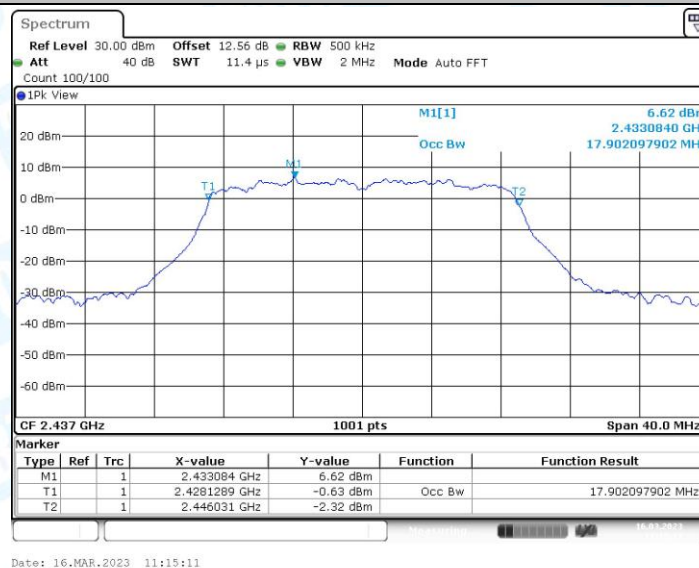
11N20MIMO_Ant1_2412



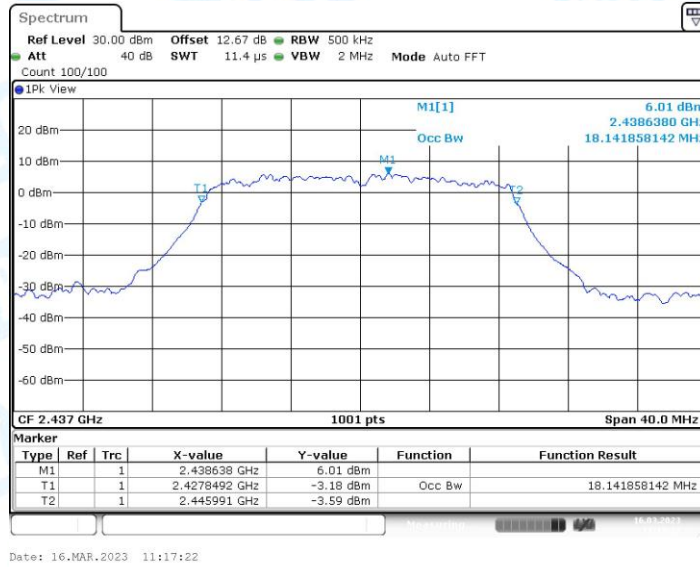
11N20MIMO_Ant2_2412



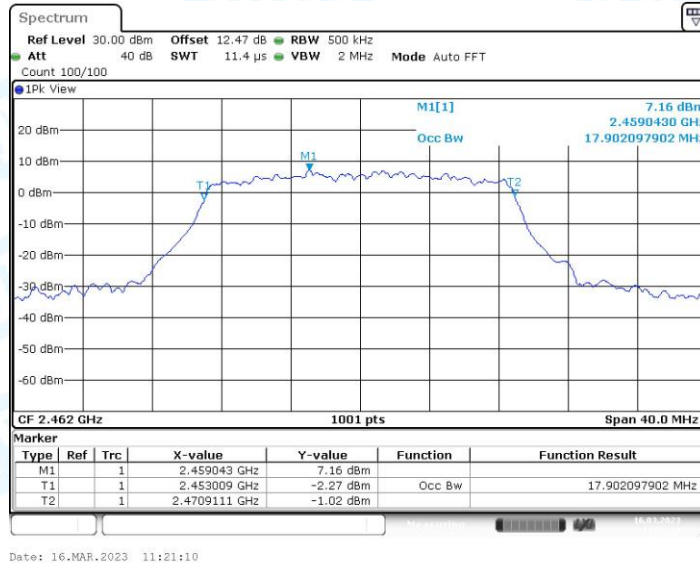
11N20MIMO_Ant1_2437



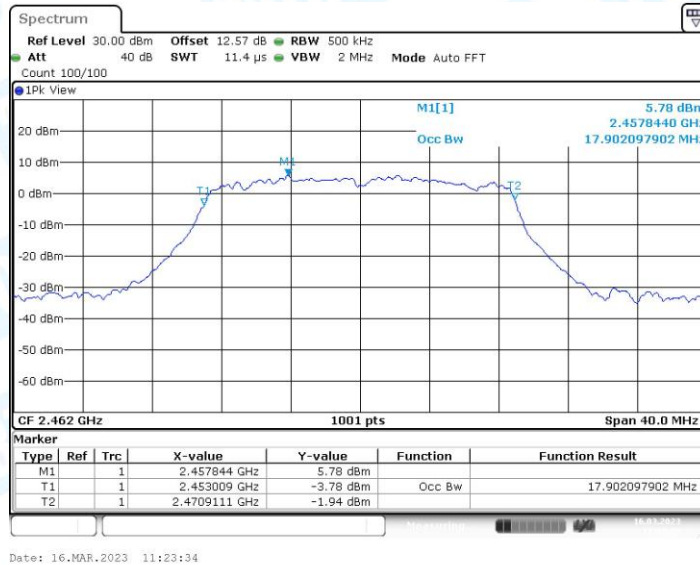
11N20MIMO_Ant2_2437



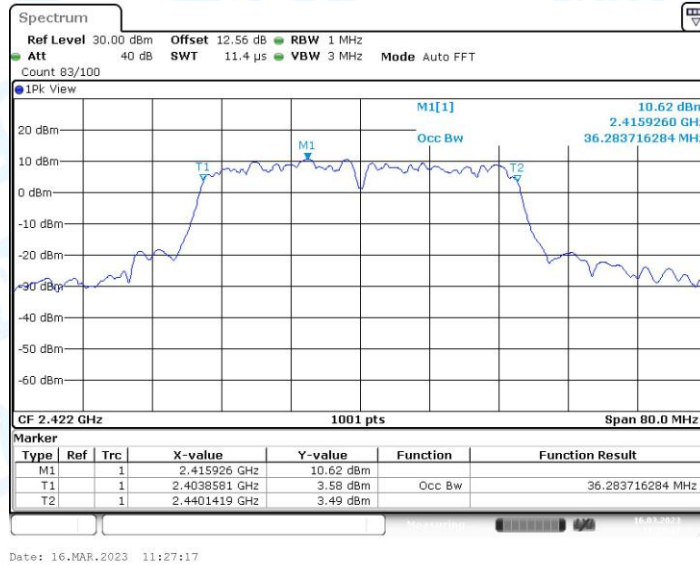
11N20MIMO_Ant1_2462



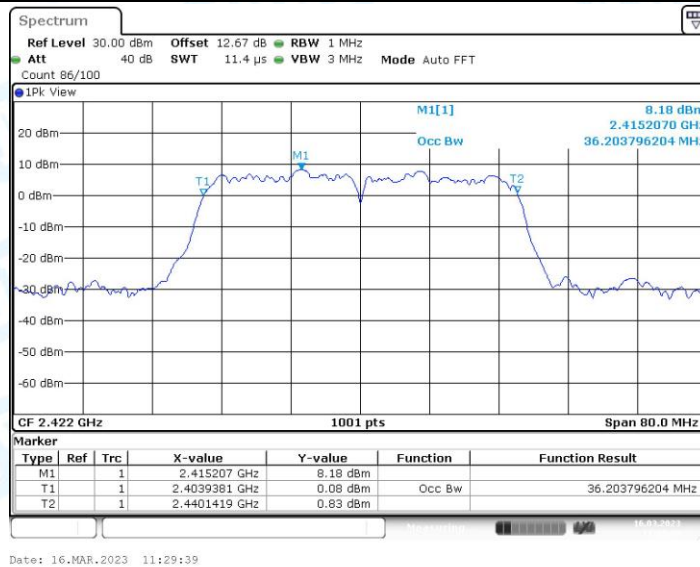
11N20MIMO_Ant2_2462



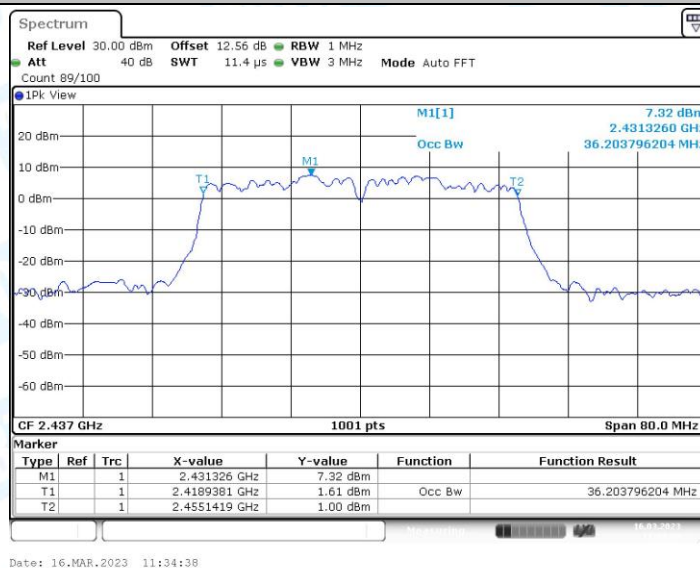
11N40MIMO_Ant1_2422



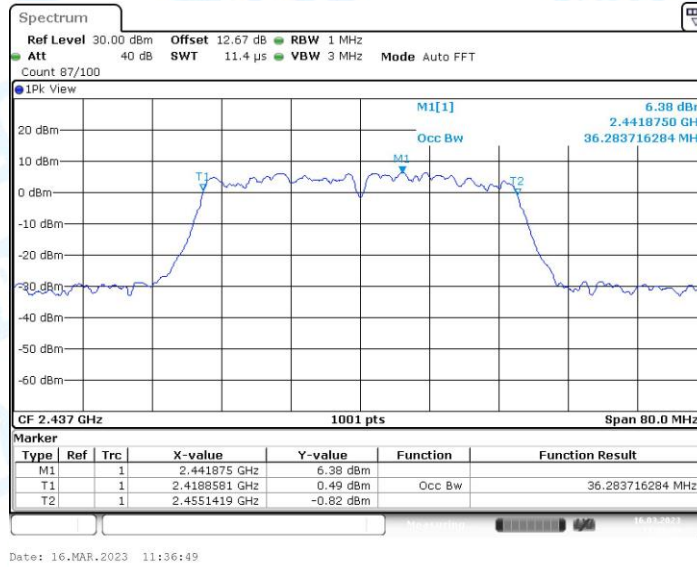
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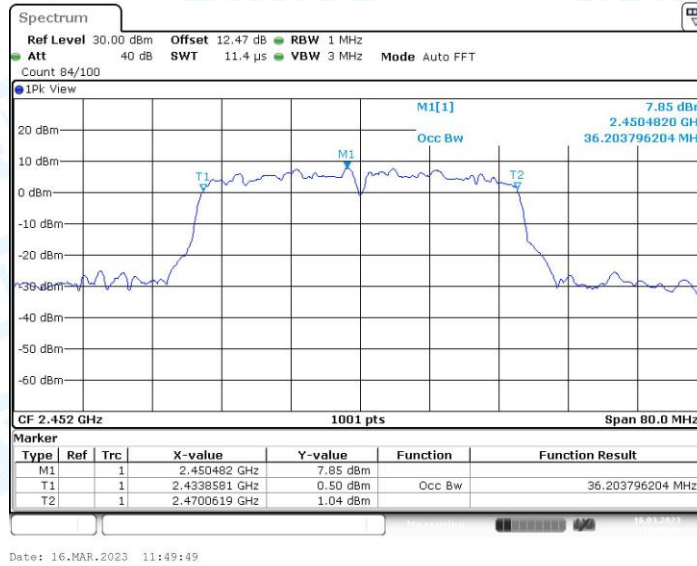
11N40MIMO_Ant1_2437



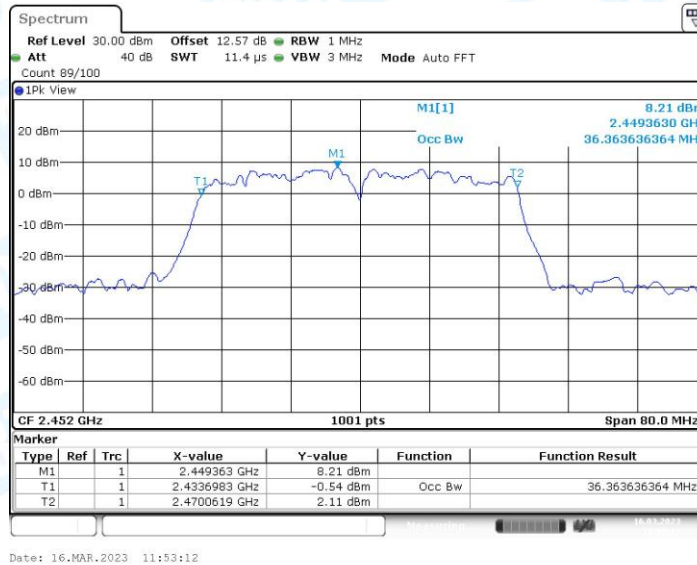
11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



3. Maximum conducted output power

3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.70	≤30.00	PASS
	Ant2	2412	15.22	≤30.00	PASS
	Ant1	2437	15.48	≤30.00	PASS
	Ant2	2437	15.56	≤30.00	PASS
	Ant1	2462	15.62	≤30.00	PASS
	Ant2	2462	15.43	≤30.00	PASS
11G	Ant1	2412	16.05	≤30.00	PASS
	Ant2	2412	16.19	≤30.00	PASS
	Ant1	2437	15.73	≤30.00	PASS
	Ant2	2437	16.08	≤30.00	PASS
	Ant1	2462	15.71	≤30.00	PASS
	Ant2	2462	15.73	≤30.00	PASS
11N20MIMO	Ant1	2412	13.85	≤30.00	PASS
	Ant2	2412	13.43	≤30.00	PASS
	total	2412	16.66	≤30.00	PASS
	Ant1	2437	13.48	≤30.00	PASS
	Ant2	2437	13.04	≤30.00	PASS
	total	2437	16.28	≤30.00	PASS
	Ant1	2462	13.45	≤30.00	PASS
	Ant2	2462	12.93	≤30.00	PASS
	total	2462	16.21	≤30.00	PASS
11N40MIMO	Ant1	2422	13.96	≤30.00	PASS
	Ant2	2422	13.56	≤30.00	PASS
	total	2422	16.77	≤30.00	PASS
	Ant1	2437	13.63	≤30.00	PASS
	Ant2	2437	12.99	≤30.00	PASS
	total	2437	16.33	≤30.00	PASS
	Ant1	2452	13.63	≤30.00	PASS
	Ant2	2452	14.14	≤30.00	PASS
	total	2452	16.90	≤30.00	PASS

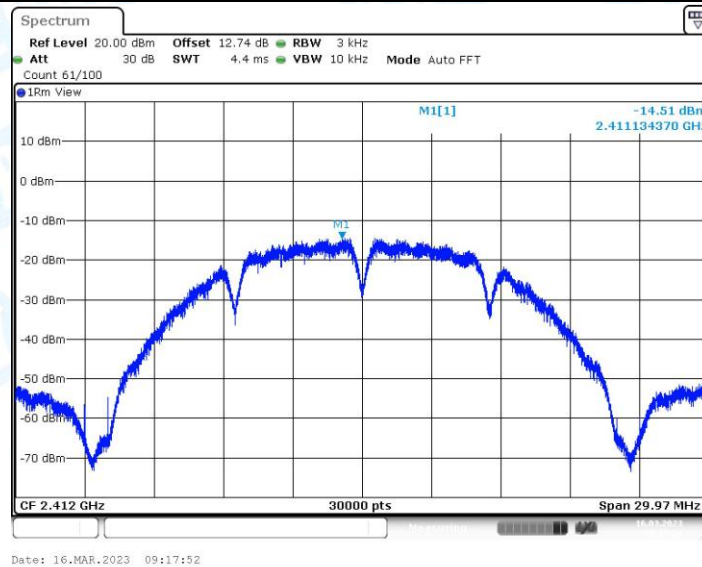
4. Maximum power spectral density

4.1. Test Result

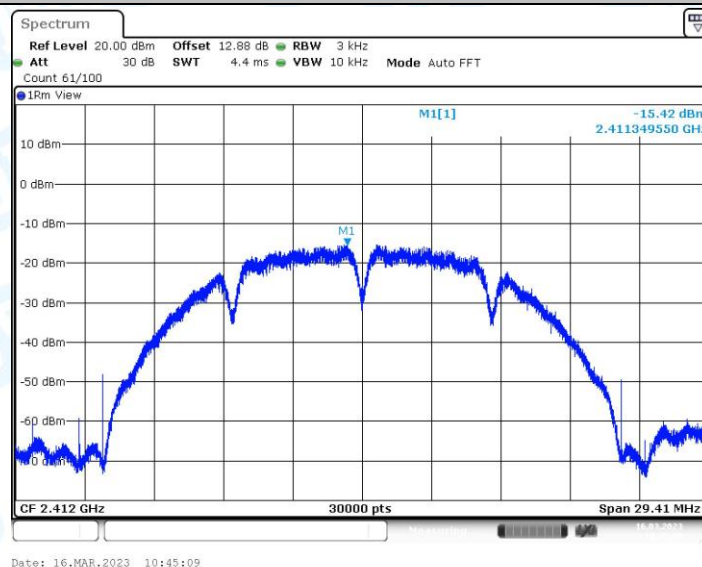
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.51	≤8.00	PASS
	Ant2	2412	-15.42	≤8.00	PASS
	Ant1	2437	-14.93	≤8.00	PASS
	Ant2	2437	-14.46	≤8.00	PASS
	Ant1	2462	-14.84	≤8.00	PASS
	Ant2	2462	-14.83	≤8.00	PASS
11G	Ant1	2412	-12.03	≤8.00	PASS
	Ant2	2412	-11.44	≤8.00	PASS
	Ant1	2437	-13.31	≤8.00	PASS
	Ant2	2437	-11.52	≤8.00	PASS
	Ant1	2462	-12.49	≤8.00	PASS
	Ant2	2462	-10.22	≤8.00	PASS
11N20MIMO	Ant1	2412	-13.49	≤8.00	PASS
	Ant2	2412	-15.02	≤8.00	PASS
	total	2412	-11.18	≤8.00	PASS
	Ant1	2437	-16.74	≤8.00	PASS
	Ant2	2437	-17.23	≤8.00	PASS
	total	2437	-13.97	≤8.00	PASS
	Ant1	2462	-16.64	≤8.00	PASS
	Ant2	2462	-16.63	≤8.00	PASS
	total	2462	-13.62	≤8.00	PASS
11N40MIMO	Ant1	2422	-17.54	≤8.00	PASS
	Ant2	2422	-16.51	≤8.00	PASS
	total	2422	-13.98	≤8.00	PASS
	Ant1	2437	-17.29	≤8.00	PASS
	Ant2	2437	-17.19	≤8.00	PASS
	total	2437	-14.23	≤8.00	PASS
	Ant1	2452	-18.41	≤8.00	PASS
	Ant2	2452	-17.98	≤8.00	PASS
	total	2452	-15.18	≤8.00	PASS

4.2. Test Graphs

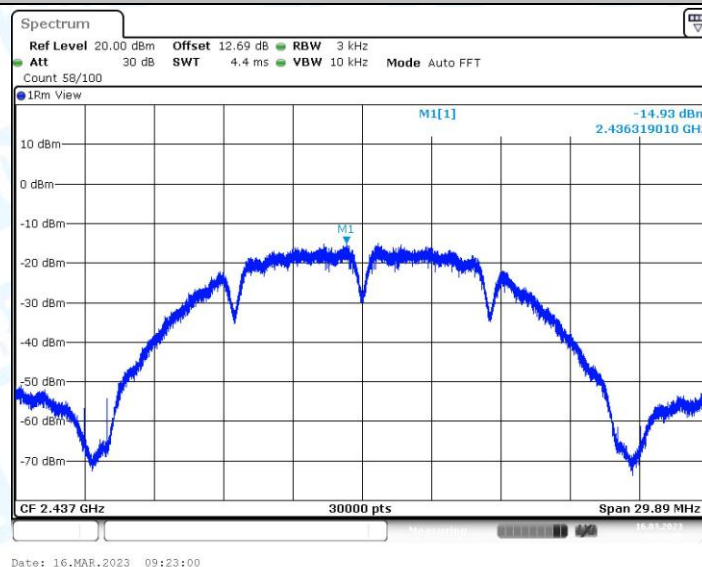
11B_Ant1_2412



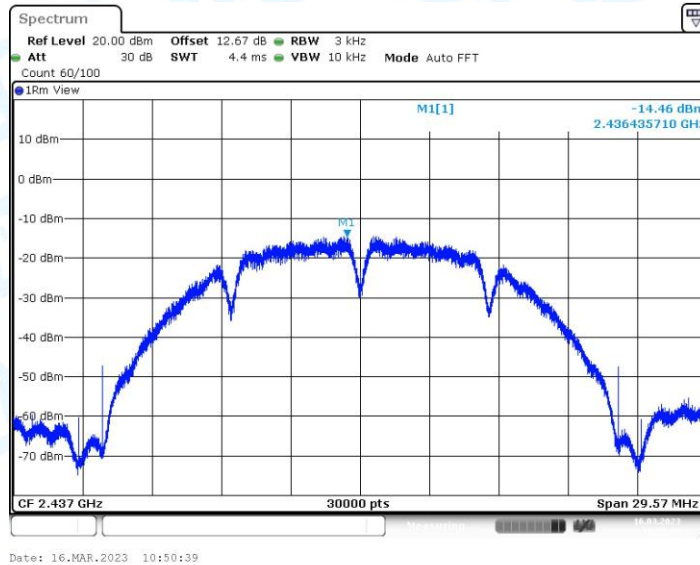
11B_Ant2_2412



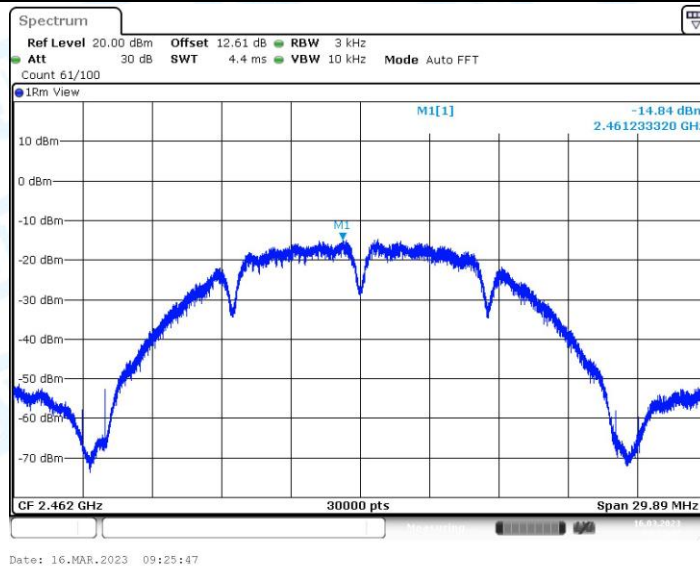
11B_Ant1_2437



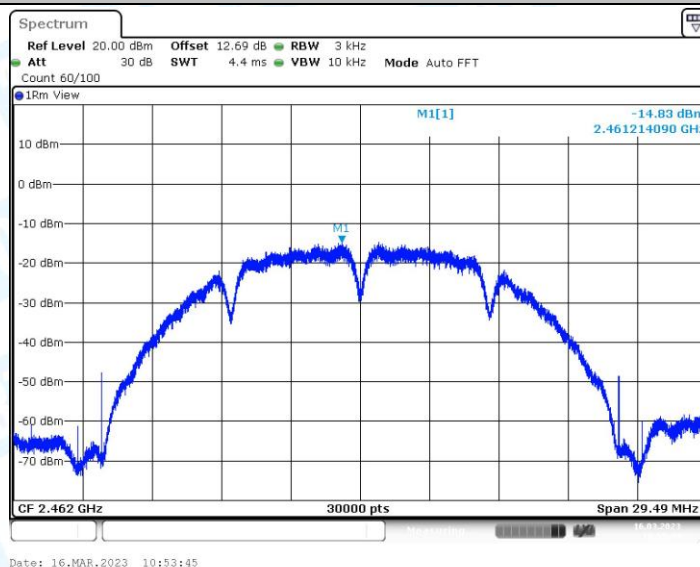
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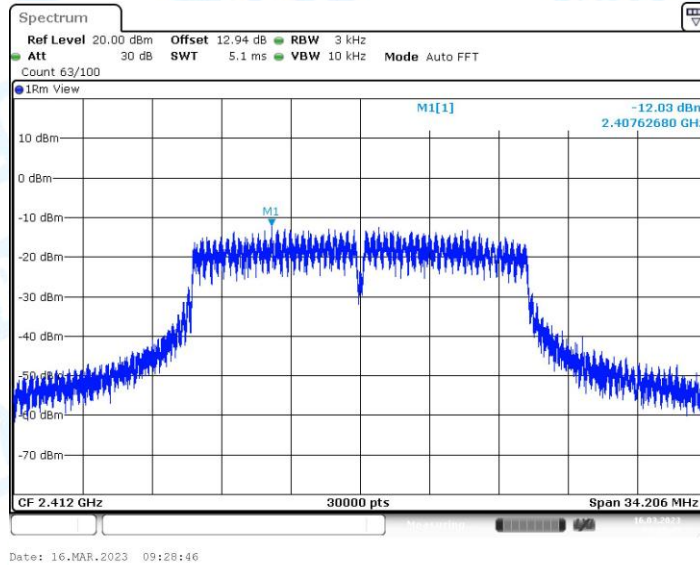
11B_Ant1_2462



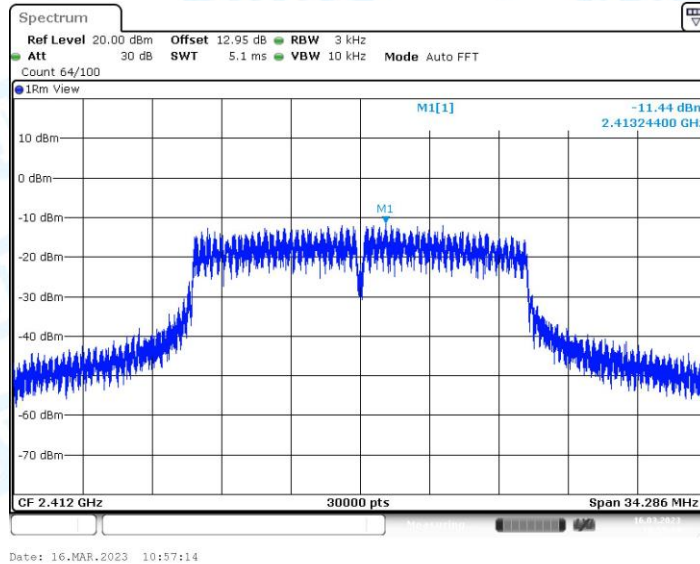
11B_Ant2_2462



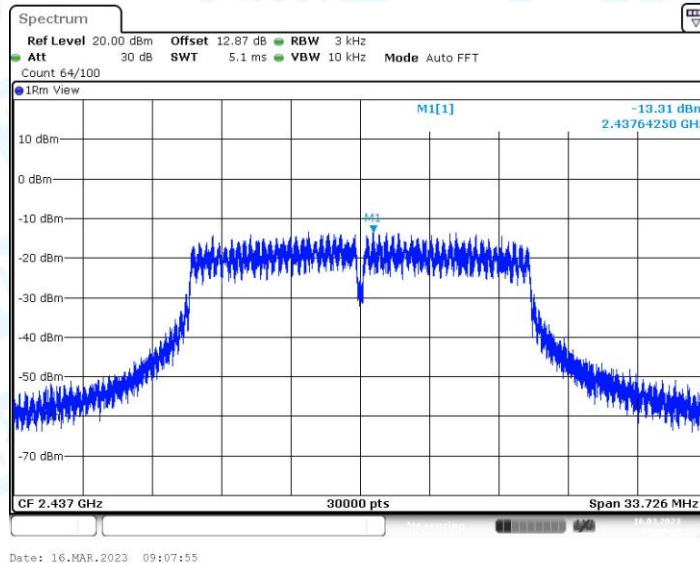
11G_Ant1_2412



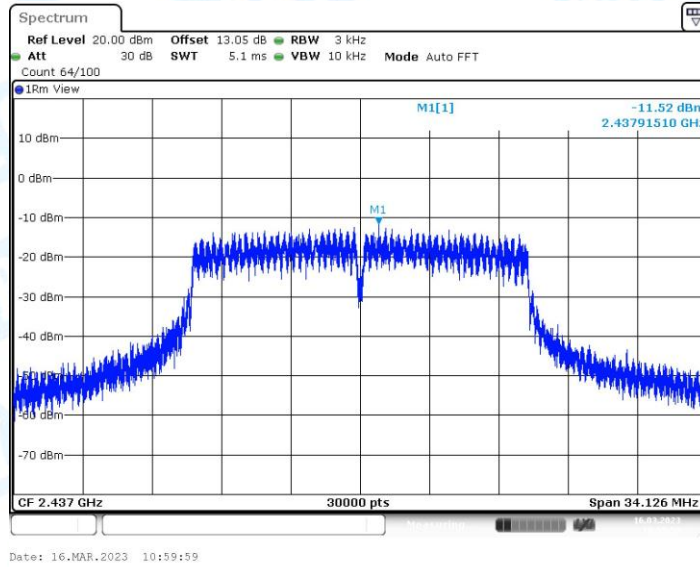
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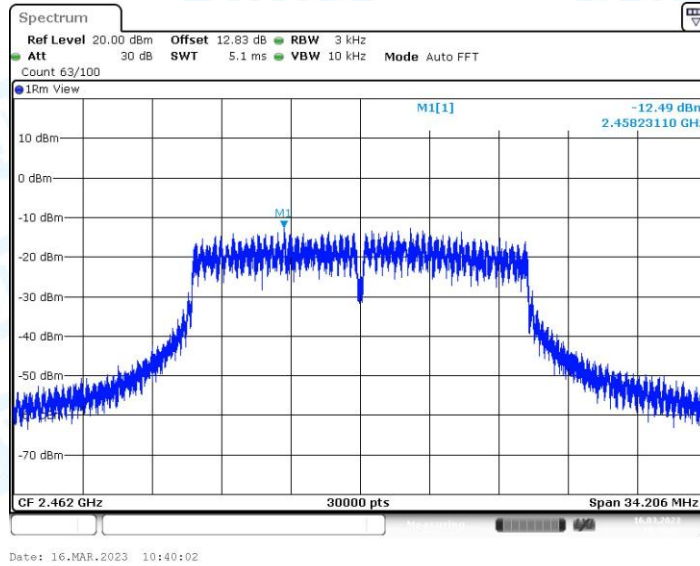
11G_Ant1_2437



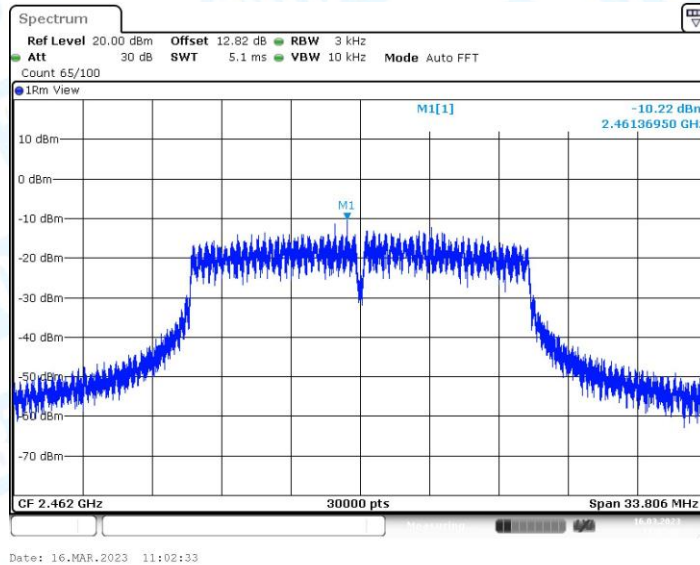
11G_Ant2_2437



11G_Ant1_2462



11G_Ant2_2462



11N20MIMO_Ant1_2412